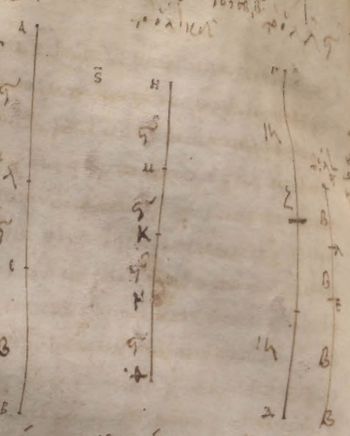
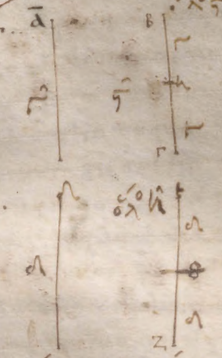


ἀριθμοὶ ἀμήποιοι. ἔστωσαν οἱ θ ζ ἀριθμοὶ ἴσοι ἀλλ-
ήλοις. καὶ ἔστω ἴσον τὸ ὑπὸ τῶν θ η καὶ τοῦ
η ζ τῷ ὑπὸ τῶν θ ζ. ὁ ἄρα μέρος ἐστὶν ὁ θ η τοῦ
θ ζ καὶ η μέρη. τὸ αὐτὸ μέρος ἐστὶ καὶ ὁ η ι τοῦ θ ζ καὶ η τὰ
αὐτὰ μέρη. ὅτι δεῖξαι ὁ μέρος
ἐστὶν ὁ θ η τοῦ θ η καὶ η μέρη. τὸ αὐ
τὸ μέρος ἐστὶ καὶ συμαμφοτέρου τοῦ
θ η καὶ η ι. ἴσον δὲ
ὁ μὲν θ η τῷ α. ὁ δὲ θ η τῷ γ.
ὁ ἄρα μέρος ἐστὶν ὁ α τοῦ γ
καὶ η μέρη. τὸ αὐτὸ μέρος ἐστὶ καὶ
ὁ θ ι τοῦ θ ζ καὶ η τὰ αὐτὰ μέρη.
ὅπερ ἔδει δεῖξαι.



ἐὰν ἀριθμὸς ἀριθμοῦ μέρος ᾖ καὶ ἄλλος ἄλλου
τὸ αὐτὸ μέρος ᾖ καὶ συναμφότερος συναμφοτέρου
τὸ αὐτὸ μέρος ἔσται καὶ ἡ τῶν ἑαυτῶν μέρη ὁ
πρῶτος τοῦ τρίτου. τὸ αὐτὸ μέρος ἐστὶ καὶ ἡ τῶν αὐτῶν
μέρη καὶ ὁ δεύτερος τοῦ τετάρτου· ἀριθμὸς γὰρ ὁ α
ἀριθμοῦ τοῦ β μέρος ἔστω. καὶ ἄλλος ὁ α ἄλλου τοῦ
γ τὸ αὐτὸ μέρος ὁ πρῶτος ὁ α τοῦ β. ἐπεί γὰρ ὁ α
τοῦ β. μέτρῳ ὁ τι καὶ ὁ α τοῦ γ. ὁ μέρος ἐστὶν
ὁ α τοῦ α καὶ η μέρη. τὸ αὐτὸ μέρος ἐστὶ καὶ ὁ β τοῦ δ
καὶ η μέρη· ὥστε καὶ ὁ α τοῦ β. τὸ αὐ
τὸ μέρος ἐστὶ καὶ ὁ α τοῦ γ· ὅσοι ἄρα εἰσὶν ἐν τῷ
β ἀριθμοὶ ἴσοι τῷ α, τοσοῦτοι εἰσὶν καὶ ἐν τῷ δ ἴσοι
τῷ γ· διῃρήσθω ὁ μὲν β εἰς τοὺς τῷ α ἴσους
τοὺς β η η· ὁ δὲ δ εἰς τοὺς τῷ γ ἴσους τοὺς θ
θ ζ. ἐπεὶ δὴ ἴσον ἐστὶ τὸ ὑπὸ τῶν β η η τῷ
ὑπὸ τῶν θ θ ζ· καὶ ἔστιν ἴσοι εἰσὶν οἱ β η η

μέρη ἐστὶν ἄρα ὁ πρῶτος τοῦ δευτέρου
ὁ θ η τοῦ θ ζ· ἴσοι δὲ οἱ θ η τῷ α καὶ οἱ θ θ ζ τῷ γ
ὁ ἄρα α τοῦ γ καὶ η μέρη ἐστί· καὶ ἔστιν ὁ α τοῦ β
καὶ η μέρη· ὁ ἄρα β τοῦ γ καὶ η μέρη ἐστί· καὶ ἔστιν
ὁ α τοῦ β καὶ η μέρη· ὅσα ἄρα μέρη ἐστὶν ὁ α τοῦ β
τοσαῦτα μέρη ἐστὶ καὶ ὁ β τοῦ γ· ὅσοι ἄρα εἰσὶν ἐν τῷ
β ἀριθμοὶ ἴσοι τῷ α, τοσοῦτοι εἰσὶν καὶ ἐν τῷ δ ἴσοι
τῷ γ· διῃρήσθω ὁ μὲν β εἰς τοὺς τῷ α ἴσους τοὺς
β η η· ὁ δὲ δ εἰς τοὺς τῷ γ ἴσους τοὺς θ θ
ζ· ἔστι δὴ ἴσον τὸ ὑπὸ τῶν β η η τῷ ὑπὸ τῶν θ θ ζ· καὶ
ἔστιν ἴσοι εἰσὶν οἱ β η η

ἐὰν ἀριθμὸς ἀριθμοῦ μέρη ᾖ καὶ ἄλλος ἄλλου τὰ
αὐτὰ μέρη, καὶ συναμφότερος συναμφοτέρου τὰ
αὐτὰ μέρη ἔσται, μέρη ἐστὶν ὁ πρῶτος τοῦ
τρίτου καὶ ἡ μέρος. τὰ αὐτὰ μέρη ἐστὶ καὶ ὁ δεύ-
τερος τοῦ τετάρτου καὶ τὸ αὐτὸ μέρος· ἀριθμὸς
γὰρ ὁ α β ἀριθμοῦ τοῦ γ μέρη ἔστω. καὶ ἄλλος ὁ α δ
ἄλλου τοῦ ζ τὰ αὐτὰ μέρη· συναμφότερος δὲ ἔστω ὁ
α β τοῦ α δ· μέτρῳ ὁ τι καὶ συναμφότερος· αἱ, μέρη ἐστὶν ὁ
α β τοῦ α δ καὶ η μέρος, τὰ αὐτὰ μέρη ἐστὶ καὶ ὁ γ τοῦ ζ
καὶ τὸ αὐτὸ μέρος· ὅσα γὰρ μέρη ἐστὶν ὁ α β τοῦ γ.
τὰ αὐτὰ μέρη ἐστὶ καὶ ὁ α δ τοῦ ζ· ὅσα ἄρα ἐστὶν ἐν
τῷ α β μέρη τοῦ γ, τοσαῦτα καὶ ἐν τῷ α δ μέρη
τοῦ ζ· διῃρήσθω ὁ μὲν α β εἰς τοὺς τῷ α